EXHIBIT B

- 49. A polypeptide according to claim 83, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxylterminus, or at both the amino-terminus and at the carboxyl-terminus.
- A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxylterminus.
- A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.
- 52. A polypeptide according to claim 51, wherein said polypeptide includes a methionine at the amino-terminus.
- A polypeptide according to claim 49, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.
- A pharmaceutical composition comprising a polypeptide of claim 69 and a pharmaceutically acceptable carrier.
- A pharmaceutical composition comprising a polypeptide of claim 83 and a pharmaceutically acceptable carrier.
- 69. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by a DNA molecule selected from the group consisting of:
 - A) [DNA] a DNA molecule comprising the sequence:

R² GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC CCC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAA CAG AAA CAG AAC ACC GTG TGC ACC TTC TCC TGC CAG GAG AAA CAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a DNA molecule comprising a sequence coding for a polypeptide which can be cleaved *in vivo*; [and]

B) [DNA] a DNA molecule comprising the sequence:

 R^2 GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA.

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or represents a DNA molecule coding for a polypeptide which can be cleaved *in vivo*;

- C) a DNA <u>molecule comprising the</u> sequence of A or B encoding at least one conservative amino acid substitution;
- D) a DNA molecule comprising the sequence of A or B encoding at least one amino acid substitution at a glycosylation site;
- E) a DNA molecule comprising the sequence of A or B encoding at least one amino acid substitution at a proteolytic cleavage site; and
- F) a DNA molecule comprising the sequence of A or B encoding at least one amino acid substitution at a cysteine residue.
- 70. (Amended) [Polypeptide] A polypeptide according to claim 69, wherein R² is a DNA molecule comprising a sequence which codes for a polypeptide which can be cleaved *in vivo*.
- 71. (Amended) [Polypeptide] A polypeptide according to claim 69, wherein R² is a DNA molecule comprising the sequence: CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA, or a C- and/or N- terminally shortened sequence thereof.
- 72. (Amended) [Polypeptide] A polypeptide according to claim 69, wherein R² is a DNA molecule encoding an amino acid sequence comprising: leu val pro his leu gly asp arg glu lys arg, or a C- and/or N- terminally shortened sequence thereof.
- 73. (Amended) [Polypeptide] A polypeptide according to claim 70, wherein R² is a DNA molecule comprising the sequence: R³ CTG GTC CCT CAC CTA GGG

GAC AGG GAG AAG AGA, or a C- and/or N- terminally shortened sequence thereof, wherein R³ is a DNA molecule coding for a signal peptide.

- 74. (Amended) [Polypeptide] A polypeptide according to claim 70, wherein R² is a DNA molecule encoding an amino acid sequence comprising: R³ leu val pro his leu gly asp arg glu lys arg, or a C- and/or N- terminally shortened sequence thereof, wherein R³ is a DNA molecule coding for a signal peptide.
- 75. (Amended) [Polypeptide] A polypeptide according to claim 73, wherein R³ is a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA[;].

or a C- and/or N- terminally shortened sequence thereof.

76. (Amended) [Polypeptide] <u>A polypeptide</u> according to claim [73] <u>74</u>, wherein R³ is a DNA <u>molecule</u> encoding an amino acid sequence comprising:

val leu val leu leu leu pro leu met gly ser thr pro asp leu leu leu ile glu leu val gly ile tyr pro ser gly val gly[;].

or a C- and/or N- terminally shortened sequence thereof.

- 78. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by a DNA molecule selected from the group consisting of:
 - A) [DNA] <u>a DNA molecule</u> comprising the sequence:

CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG TGC TCC TCC TGC CAG GAG AAA AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGC CAG GAG AAA AAC AAC AAC GAG TGC TCC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

B) [DNA] <u>a DNA molecule</u> comprising the sequence:

CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

C) [DNA] <u>a DNA molecule</u> comprising the sequence:

GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACC AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof; [and]

D) [DNA] <u>a DNA molecule</u> comprising the sequence:

GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC CCC CAG ATT GAG AAT GTT AAG GGC ACC GTG TGC ACC TCA GCA GAC TCA GCC CTC AAC ACC CTC AAC ACC CTC TCC TGT AGT AAC CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GCC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

E) a DNA molecule comprising the sequence of A, B, C or D encoding at least one conservative amino acid substitution;

- F) a DNA molecule comprising the sequence of A, B, C or D encoding at least one amino acid substitution at a glycosylation site;
- G) a DNA molecule comprising the sequence of A, B, C or D encoding at least one amino acid substitution at a proteolytic cleavage site; and
- H) a DNA molecule comprising the sequence of A, B, C or D encoding at least one amino acid substitution at a cysteine residue.
- 80. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is encoded by DNA molecule selected from the group consisting of:
 - A) [DNA] a DNA molecule comprising the sequence:

```
ATG CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGA AAC CAC TGC CTC AGA CAC TGC CTC TGT GGC TGC AGA AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC TGC CAG GAG AAA CAG AAC CAC TGC CTC TGC CAG GAG AAA CAG AAC ACC GTG TGC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA AAA AGC CTG GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT,
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B) [DNA] a DNA molecule comprising the sequence:

> ATG CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

C) [DNA] <u>a DNA molecule</u> comprising the sequence:

ATG GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC CTC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC CAG TGC TTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TTC TCC TGC CAG GAG AAA CAG AAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

D) [DNA] a DNA molecule comprising the sequence:

ATG GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG CAC TGC TTC TTC TGC CTC TGC CAG GAG AAA CAC GTG TGC TTC TTC TGC CAG TGC TTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACC GAG GAC ACC TCC TGC CAG GAC TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GCC ACA,

or a C- and/or N- terminally shortened sequence thereof;

E) [DNA] <u>a DNA molecule</u> comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

F) [DNA] a DNA molecule comprising the sequence:

> ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA,

or a C- and/or N- terminally shortened sequence thereof;

G) [DNA] a DNA molecule comprising the sequence:

ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT,

or a C- and/or N- terminally shortened sequence thereof;

H) [DNA] a DNA molecule comprising the sequence:

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ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA GAT AGT GTG TGT CCC CAA GGA
AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT
ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC
TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG
TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC
CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG
GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG
GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG
TAC CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC
TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC
CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC
TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT
GTC TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC
ACG AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG
GGC ACT GAG GAC TCA GGC ACC ACA.
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or a C- and/or N- terminally shortened sequence thereof; [and]

I) [DNA] a DNA molecule comprising the sequence:

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ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CCA
CTG GTG CTC CTG GAG CTG TTG GTG GGA ATA TAC CCC
TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC
AGG GAG AAG AGA GAT AGT GTG TGT CCC CAA GGA AAA
TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC
AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT
CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT
GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC
AGA CAC TGC CTC AGC TGC TCC AAA TGC CGA AAG GAA
ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC
CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC
CGG CAT TAT TGG AGT GAA AAC CTT TTC CAG TGC TTC
AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC
TCC TGC CAG GAG AAA CAG AAC ACC GTG TGC ACC TGC
CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC
TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG
AAG TTG TGC CTA CCC CAG ATT GAG AAT GTT AAG GGC
ACT GAG GAC TCA GGC ACC ACA GTG CTG TTG CCC CTG
GTC ATT TTC TTT GGT CTT TGC CTT TTA TCC CTC CTC
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TTC ATT GGT TTA ATG TAT CGC TAC CAA CGG TGG AAG
TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG ACA
CCT GAA AAA GAG GGG GAG CTT GAA GGA ACT ACT ACT
AAG CCC CTG GCC CCA AAC CCA AGC TTC AGT CCC ACT
CCA GGC TTC ACC CCC ACC CTG GGC TTC AGT CCC GTG
CCC AGT TCC ACC TTC ACC TCC AGC TCC ACC TAT ACC
CCC GGT GAC TGT CCC AAC TTT GCG GCT CCC CGC AGA
GAG GTG GCA CCA CCC TAT CAG GGG GCT GAC CCC ATC
CTT GCG ACA GCC CTC GCC TCC GAC CCC ATC CCC AAC
CCC CTT CAG AAG TGG GAG GAC AGC GCC CAC AAG CCA
CAG AGC CTA GAC ACT GAT GAC CCC GCG ACG CTG TAC
GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAG
GAA TTC GTG CGG CGC CTA GGG CTG AGC GAC CAC GAG
ATC GAT CGG CTG GAG CTG CAG AAC GGG CGC TGC CTG
CGC GAG GCG CAA TAC AGC ATG CTG GCG ACC TGG AGG
CGG CGC ACG CCG CGC GAG GCC ACG CTG GAG CTG
CTG GGA CGC GTG CTC CGC GAC ATG GAC CTG CTG GGC
TGC CTG GAG GAC ATC GAG GAG GCG CTT TGC GGC CCC
GCC GCC CTC CCG CCC GCG CCC AGT CTT CTC AGA,
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- J) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one conservative amino acid substitution;
- K) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a glycosylation site;
- L) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a proteolytic cleavage site; and
- M) a DNA molecule comprising the sequence of A, B, C, D, E, F, G, H or I encoding at least one amino acid substitution at a cysteine residue.
- 82. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, characterized in that the polypeptide is

encoded by a nucleic acid which hybridizes with DNA complementary to the DNA defined in claim 69 under conditions of moderate stringency.

- 83. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is selected from the group consisting of:
 - A) a polypeptide comprising the amino acid sequence:

R^2	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu
	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys
	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
	cys	leu	pro	gln	ile	glu	asn,							

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a polypeptide which can be cleaved *in vivo*;

B) a polypeptide comprising the amino acid sequence:

R ² asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu
asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys
thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser

gly thr thr,

or a C- and/or N- terminally shortened sequence thereof, wherein R² is absent or is a polypeptide which can be cleaved *in vivo*;

- C) a polypeptide comprising the amino acid sequence of A or B with at least one conservative amino acid substitution;
- D) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a glycosylation site;
- E) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a proteolytic cleavage site; and
- F) a polypeptide comprising the amino acid sequence of A or B with at least one amino acid substitution at a cysteine residue.
- 84. (Amended) [Polypeptide] A polypeptide according to claim 83, wherein R² is a polypeptide comprising an amino acid sequence which can be cleaved *in vivo*.
- 85. (Amended) [Polypeptide] <u>A polypeptide</u> according to claim 84, wherein R² is a polypeptide comprising the amino acid [sequence:] <u>sequence</u>:

val gly leu thr leu leu pro leu met ser val asp leu leu leu glu leu gly ile gly val ile leu val tyr pro ser gly[;],

or a C- and/or N- terminally shortened sequence thereof.

95. A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, characterized in that the polypeptide is

encoded by a nucleic acid which hybridizes with DNA complementary to the DNA defined in claim 83 under conditions of moderate stringency.

96. (Amended) A polypeptide according to claim 83, wherein said polypeptide is selected from the group consisting of:

A) a polypeptide comprising the amino acid sequence:

asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu
asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys
thr	cys	his -	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
cys	leu	pro	gln	ile	glu	asn,							

or a C- and/or N- terminally shortened sequence thereof;

B) a polypeptide comprising the amino acid sequence:

leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser	val
cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser	ile
cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn	asp
cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys	glu
ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his	cys
leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val	glu
ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly	cys
arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu	phe
gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val	his
leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys	his
ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys	ser
asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu	pro
gln	ile	glu	asn,										

C) a polypeptide comprising the amino acid sequence:

asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn
asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu
tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg
glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu
arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly
gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val
cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu
asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly
thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys
thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val
ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu
cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser
gly	thr	thr,											

or a C- and/or N- terminally shortened sequence thereof; [and]

D) a polypeptide comprising the amino acid sequence:

leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser	val
cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser	ile
cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn	asp
cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys	glu
ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his	cys
leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val	glu
ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly	cys
arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu	phe
gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val	his
leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys	his
ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys	ser
asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu	pro
gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr	thr,

or a C- and/or N- terminally shortened sequence thereof;

E) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one conservative amino acid substitution;

- F) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a glycosylation site;
- G) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a proteolytic cleavage site; and
- H) a polypeptide comprising the amino acid sequence of A, B, C or D with at least one amino acid substitution at a cysteine residue.
- 102. (Amended) [Polypeptide] <u>A polypeptide</u> according to claim 96, wherein said polypeptide is not associated with human urinary proteins.
- 103. (Amended) A recombinant polypeptide which is nonglycosylated or is glycosylated by a CHO cell and has the ability to bind to TNF, wherein said polypeptide is selected from the group consisting of [::]:
 - A) a polypeptide comprising the amino acid sequence:

met	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr
leu	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys
arg	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met
gly	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr
val	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser
glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn
gly	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val
cys	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys
leu	cys	leu	pro	gln	ile	glu	asn,						

B) a polypeptide comprising the amino acid sequence:

met	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys
glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn,									

C) a polypeptide comprising the amino acid sequence:

met asn leu arg leu gly val glu gly cys val leu	asp asn tyr glu arg gln cys asn thr thr ser cys	ser ser asn cys his val gly leu val cys cys leu	val ile asp glu cys glu cys phe his his ser pro	cys cys cys ser leu ile arg gln leu ala asn gln	pro cys pro gly ser ser lys cys ser gly cys ile	gln thr gly ser cys ser asn phe cys phe lys glu	gly lys pro phe ser cys gln asn gln phe lys	lys cys gly thr lys thr tyr cys glu leu ser val	tyr his gln ala cys val arg ser lys arg leu lys	ile lys asp ser arg asp his leu gln glu glu gly	his gly thr glu lys arg tyr cys asn asn cys thr	pro thr asp asn glu asp trp leu thr glu thr	gln tyr cys his met thr ser asn val cys lys asp
leu ser	cys gly	leu thr	pro thr,	gln	ile	glu	asn	val	lys	gly	thr	glu	asp

or a C- and/or N- terminally shortened sequence thereof;

D) a polypeptide comprising the amino acid sequence:

met	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys

glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr
thr,													

E) a polypeptide comprising the amino acid sequence:

met leu gly val ile asp glu cys glu cys phe his	gly leu cys cys cys ser leu ile arg gln leu ala	leu glu val pro cys pro gly ser ser lys cys ser gly	ser leu pro gln thr gly ser cys ser asn phe cys phe	thr leu his gly lys pro phe ser cys gln asn gln phe	val leu lys cys gly thr lys thr tyr cys glu leu	pro gly gly tyr his gln ala cys val arg ser lys arg	asp ile asp ile lys asp ser arg asp his leu gln glu	leu tyr arg his gly thr glu lys arg tyr cys asn asn	leu pro glu pro thr asp asn glu asp trp leu thr	leu ser lys gln tyr cys his met thr ser asn val cys	pro gly arg asn leu arg leu gly val glu gly cys	leu val asp asn tyr glu arg gln cys asn thr thr	val ile ser asn cys his val gly leu val cys cys
his	ala	gly	•	-		-	_	asn	glu	cys	val	ser	_
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn,									

or a C- and/or N- terminally shortened sequence thereof;

F) a polypeptide comprising the amino acid sequence:

		leu glu					•				•		
		_						•	-				
gly	leu	val	pro	his	leu	gly	asp	arg	glu	lys	arg	asp	ser
val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln	asn	asn	ser
ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr	leu	tyr	asn
asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys	arg	glu	cys

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glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his	leu	arg	his
cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met	gly	gln	val
glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr	val	cys	gly
cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser	glu	asn	leu
phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn	gly	thr	val
his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val	cys	thr	cys
his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys	val	ser	cys
ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys	leu	cys	leu
pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp	ser	gly	thr
thr,													

G) a polypeptide comprising the amino acid sequence:

met	gly	leu	ser	thr	val	pro	asp	leu	leu	leu	pro	leu	val
leu	leu	glu	leu	leu	val	gly	ile	tyr	pro	ser	gly	val	ile
gly	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr
leu	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys
arg	glu	cys	glu	ser	gly	ser	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met
gly	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr
val	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser
glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn
gly	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val
cys	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys
leu	cys	leu	pro	gln	ile	glu	asn,						

or a C- and/or N- terminally shortened sequence thereof;

H) a polypeptide comprising the amino acid sequence:

met	~ -	leu				•	•				• .	leu	val
leu		_	leu					•	-	ser	gly	val	ile
gly	asp	ser	val	cys	pro	gln	gly	lys	tyr	ile	his	pro	gln
asn	asn	ser	ile	cys	cys	thr	lys	cys	his	lys	gly	thr	tyr
leu	tyr	asn	asp	cys	pro	gly	pro	gly	gln	asp	thr	asp	cys
arg	glu	cys	glu	ser	gly	ser .	phe	thr	ala	ser	glu	asn	his
leu	arg	his	cys	leu	ser	cys	ser	lys	cys	arg	lys	glu	met

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gly	gln	val	glu	ile	ser	ser	cys	thr	val	asp	arg	asp	thr
val	cys	gly	cys	arg	lys	asn	gln	tyr	arg	his	tyr	trp	ser
glu	asn	leu	phe	gln	cys	phe	asn	cys	ser	leu	cys	leu	asn
gly	thr	val	his	leu	ser	cys	gln	glu	lys	gln	asn	thr	val
cys	thr	cys	his	ala	gly	phe	phe	leu	arg	glu	asn	glu	cys
val	ser	cys	ser	asn	cys	lys	lys	ser	leu	glu	cys	thr	lys
leu	cys	leu	pro	gln	ile	glu	asn	val	lys	gly	thr	glu	asp
ser	gly	thr	thr,										

I) a polypeptide comprising the amino acid sequence:

val leu ser thr val leu leu leu pro leu met gly pro asp leu leu glu leu leu val gly ile tyr pro ser gly val ile gly val his leu gly glu lys leu pro asp arg arg asp ser val ile his gln cys pro gln gly lys tyr pro asn asn ser ile thr his thr leu asn cys cys lys cys lys gly tyr tyr asp gly gln thr asp cys glu cys cys pro gly pro asp arg his glu thr ala glu his leu ser gly phe ser asn arg ser lys glu gln val cys leu ser cys ser lys cys arg met gly glu ile ser ser cys thr val asp arg asp thr val cys gly leu cys lys gln tyr his tyr trp ser glu asn arg asn arg val phe gln leu gly thr cys phe asn cys ser leu cys asn his leu ser cys gln glu lys gln asn thr val cys thr cys his ala gly phe phe leu glu asn glu cys val ser cys arg thr leu ser asn cys lys lys ser leu glu cys lys leu cys pro gln ile glu asn val lys gly thr glu asp ser gly thr thr val val ile leu leu pro leu phe phe gly leu cys leu leu ile ser leu leu phe gly leu met tyr arg tyr gln arg trp lys ser lys leu tyr ser ile val cys gly lys ser thr glu glu glu leu glu gly thr thr thr pro lys gly lys pro leu ala phe ser thr gly phe thr pro asn pro ser pro pro thr phe pro leu gly ser pro val pro ser ser thr phe thr ser ser thr thr gly ser tyr pro asp cys pro asn phe ala ala pro glu val ala ala arg arg pro pro tyr gln gly asp pro ile leu ala thr ala leu ala ile ser pro asn asp pro pro leu gln lys trp glu asp ser ala his lys pro gln ser leu asp thr pro ala thr leu ala val asp asp tyr val glu val asn pro pro leu arg trp lys glu phe val arg arg leu gly leu ser his glu ile asp asp arg leu glu leu gln asn gly leu arg cys arg glu ala gln tyr ser met leu ala thr trp thr arg arg arg pro arg glu ala thr leu glu leu arg leu gly arg val leu arg asp met asp leu leu gly cys leu

glu ala leu ala leu asp ile glu glu cys gly pro ala pro pro ala pro ser leu leu arg,

or a C- and/or N- terminally shortened sequence thereof;

- J) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one conservative amino acid substitution;
- K) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a glycosylation site;
- L) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a proteolytic cleavage site; and
- M) a polypeptide comprising the amino acid sequence of A, B, C, D, E, F, G, H, or I with at least one amino acid substitution at a cysteine residue.
- 107. A polypeptide according to claim 103, wherein said polypeptide is chemically derivatized.
- 108. (Amended) A polypeptide having the ability to bind to TNF comprising an amino acid sequence as set forth in one of claims 69, 78, 80, 83, 96 [and] or 103 with at least one [intrasequence] conservative amino acid substitution.
- 109. A polypeptide according to claim 108, wherein said polypeptide includes at least one additional amino acid at the amino-terminus, at the carboxyl-terminus, or at both the amino-terminus and at the carboxyl-terminus.
- 110. A polypeptide according to claim 109, wherein said polypeptide includes at least one additional amino acid at the amino-terminus and at the carboxyl-terminus.

- 111. A polypeptide according to claim 108, wherein said polypeptide includes at least one additional amino acid at the amino-terminus.
- 112. A polypeptide according to claim 111, wherein said polypeptide includes a methionine at the amino-terminus.
- 113. A polypeptide according to claim 109, wherein said polypeptide includes at least one additional amino acid at the carboxyl-terminus.
- 114. A polypeptide according to claim 108, wherein said polypeptide includes a methionine at the amino-terminus and said amino acid substitution is at a glycosylation site.
- 115. A polypeptide according to claim 108, wherein said amino acid substitution is at a glycosylation site.